



## INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

<b>(51) International Patent Classification <sup>7</sup> :</b> <b>A61K 39/395</b>	<b>A1</b>	<b>(11) International Publication Number:</b> <b>WO 00/48632</b> <b>(43) International Publication Date:</b> 24 August 2000 (24.08.00)
<b>(21) International Application Number:</b> PCT/US00/03878 <b>(22) International Filing Date:</b> 15 February 2000 (15.02.00) <b>(30) Priority Data:</b> 60/120,128 16 February 1999 (16.02.99) US <b>(71) Applicant (for all designated States except US):</b> RUTGERS, THE STATE UNIVERSITY OF NEW JERSEY [US/US]; ASB, Annex 11, 58 Bevier Road, Piscataway, NJ 08854-8010 (US). <b>(72) Inventors; and</b> <b>(75) Inventors/Applicants (for US only):</b> YURKOW, Edward, J. [US/US]; 8 Skyview Terrace, Clifton, NJ 07013 (US). MERMELSTEIN, Fred, H. [US/US]; 123 Woods Road, Hillsborough, NJ 08876 (US). <b>(74) Agents:</b> LICATA, Jane, Massey et al.; Law Offices of Jane Massey Licata, 66 E. Main Street, Marlton, NJ 08053 (US).		<b>(81) Designated States:</b> AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).  <b>Published</b> <i>With international search report.</i> <i>Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i>
<b>(54) Title:</b> NOVEL REDOX CLAMPING AGENTS AND USES THEREOF		
<b>(57) Abstract</b>  Redox clamping agents which maintain cells in a selected redox state are provided. Also provided are methods of using the redox clamping agents to sensitize cells to chemotherapeutic agents such as antineoplastics, to inhibit hyperproliferation of cells and to stabilize the redox state of cells with abnormal fluctuations in their redox state.		